

## **Terms of Reference**

### **Consultancy assignment**

Data Analysis and Report Integration Consultancy

*26th October, 2023*

Supervised by: Unaisi Malani and Margaret V

Work location: Fiji

Duration: 3 weeks

#### **1. Background**

WWF Pacific is working together with communities and partners towards: All Pacific peoples and nations are empowered, climate resilient and prosperous, with nature thriving and visibly and measurably recovering - a 'People and Nature Positive Pacific'. From Papua New Guinea with the third largest tropical rainforest in the world and home to over seven percent of the world's total number of species, to the Solomon Islands with record numbers of fish species; to the world's third longest continuous barrier reef system in Fiji. The richness and diversity of species found in the Pacific is globally significant. Papua New Guinea and Solomon Islands both form part of the Coral Triangle, the centre of the world's marine biodiversity. Some of the most coral reefs less exposed to climate change are found in Fiji and Solomon Islands. WWF works across Papua New Guinea, Fiji, and Solomon Islands with offices in each country and a regional hub to serve communities and protect this region's rich and unique biodiversity.

We have three goals that outline our ambition and the cross-cutting nature of our work and what we are working towards long-term: empowered Pacific peoples, integrated ocean management and climate resilient Pacific nations. Our overarching focus is on community and ecosystem resilience combined with area-based conservation, working towards 30x30 and safeguarding the lands and waters of the Pacific. We focus on conservation priorities across 30x30: community-led conservation, sustainable fisheries and blue foods, conserving marine species, reducing deforestation, Pacific policy leadership, Gender Equality, Disability and Social Inclusion (GEDSI) mainstreaming and sustainable blue economy.

The project that this consultancy will support is the Sustaining Coastal Fisheries Management through Community Business Project funded by the New Zealand Government's Ministry of Foreign Affairs and Trade (MFAT). It proposes to develop and pilot a community business model as a means to boost livelihoods and promote sustainable fisheries

The project is implemented in two-community qoliqoli in the province of Macuata. The qoliqoli are located within the Great Sea Reef or Cakaulevu, identified as the third longest barrier reef system in the world. These sites were selected for two reasons, the location of the qoliqoli and significance in perpetuating marine biodiversity and fisheries for the benefit of communities within the site and beyond.

Secondly, the qoliqoli are one of nine in the north of Fiji that currently supplies fish that feeds a significant proportion of Fiji's population- aside from the coastal communities located along the Great Sea Reef itself, it also supplies Suva the capital and the greater Suva areas which contain a quarter of the country's population.

The project is developing an innovative approach that: a) builds the ecological resilience into community fisheries to secure food and livelihoods; b) enhances the economic value of marine resources from coastal fisheries that reinvests into community fisheries management and c) strengthens co-management of fishing grounds with Fiji's national fisheries agencies, which tie in with MFATs priorities to sustainably manage natural resources and protect the environment

## **2. Objectives of the Consultancy**

The Consultant will be responsible for delivering the following objectives:

- To analyse fish catch data and integrate the findings into a comprehensive report, providing valuable insights for fishers in the Nadogo Qoliqoli and the Qoliqoli Cokovata

*Deliverables are outlined below (Table 1).*

## **3. Scope of work and methodology**

### *Data Analysis*

- Perform statistical analysis on the fish catch data to identify trends, patterns, and anomalies.
- Analyse the catch by species, location, and fishing method and market price
- Comprehensive fish catch data analysis report

### *Integration into Fisheries Management Plans*

- Create a user-friendly interface or dashboard to present the key findings
- Ensure that the catch data analysis is integrated into the Nadogo and Qoliqoli Cokovata Fisheries Management Reports and that the 2 reports are reviewed and updated

## **4. Deliverables/expected outputs**

See table 1 below.

## **5. Required profile**

### **Expertise/knowledge Required**

#### *Fisheries Biology and Ecology:*

- Understanding of fish species, their life cycles, habitats, and behavior.

#### *Data Collection:*

- Knowledge of basic data collection methods, including sampling techniques, gear types, and

data recording protocols.

- Familiarity with fisheries survey methods and the sources of catch data, such as fisheries agencies, research institutions, and commercial fisheries.

*Statistical Analysis:*

- Descriptive statistics to summarize basic catch data,
- Time series analysis for detecting trends and seasonality in catch data.

*Fishery Management:*

- Understanding of fishing regulations, quotas, and management strategies that can impact catch data.
- Knowledge of sustainable fishing practices and their implications for fisheries management.

**Experience and skills required**

*Education:*

- A bachelor's degree in a related field such as fisheries science, marine biology, environmental science, or a relevant quantitative discipline (e.g., statistics, data science).

*Data Analysis Skills:*

- Proficiency in data analysis
- Strong quantitative skills, including statistical analysis, data visualization, and the ability to work with large datasets.

*Fisheries Knowledge:*

- A deep understanding of fisheries science, including fish biology, ecology, and the factors that impact fish populations.
- Knowledge of fishing techniques, gear, and industry practices.

*Experience with Data Collection and Management:*

- Experience in collecting, managing, and curating fisheries data, which may include data on catch, effort, size, and species composition.
- Familiarity with database management systems and data cleaning procedures.

*Regulatory and Policy Knowledge:*

- Understanding of fisheries regulations, laws, and management policies at the regional, national, and international levels.

**6. Application**

- CV outlining relevant experience
- Cover letter outlining experience, proposed methodology for the consultancy and proposed number of days and daily rate to complete the assignment
- Relevant certifications

Applications should be submitted to: [ppo.hr\\_recruit@wwfpacific.org](mailto:ppo.hr_recruit@wwfpacific.org)

**Table 1: Consultancy Activities and Outputs/ deliverables:**

Objective:	Activities and Scope:	Outputs/deliverables:	When
To analyse fish catch data and integrate the findings into a comprehensive report, providing valuable insights for fishers in the Nadogo Qoliqoli and the Qoliqoli Cokovata	Perform statistical analysis on the fish catch data to identify trends, patterns, and anomalies. Analyse the catch by species, location, and fishing method and market price Comprehensive fish catch data analysis report	Catch data input and organized Catch data analysed according to the 2 Qoliqolis	November 2023
	Create a user-friendly interface or dashboard to present the key findings Ensure that the catch data analysis is integrated into the Nadogo and Qoliqoli Cokovata Fisheries Management Reports and that the 2 reports are reviewed and updated	Catch data analysis integrated into the Nadogo Fisheries Management Plans and recommendations provided accordingly Catch data analysis integrated into the Qoliqoli Cokovata Fisheries Management Plans and recommendations provided accordingly	November 2023